

-1- (JAPIO)

ACCESSION NUMBER	86-140068
TITLE	ZINC ALKALI BATTERY
PATENT APPLICANT	(2000582) MATSUSHITA ELECTRIC IND CO LTD; (2000618) MITSUI MINING & SMELTING CO LTD
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INT'L PATENT CLASS	H01M-004/42; C22C-018/00
JAPIO CLASS	42.9 (ELECTRONICS--Other); 12.2 (METALS--Metallurgy Heat Treating); 12.3 (METALS--Alloys)
ABSTRACT	<p>PURPOSE: To obtain a low pollution zinc alkali battery by employing zinc alloy containing Ni and Te within proper content for the negative electrode.</p> <p>CONSTITUTION: Zinc alloy containing 0.01-0.5wt% of nickel (Ni) and 0.01-0.5wt% of tellurium (Te) is employed for the negative pole of zinc alkali battery. When adding both Ni and Te for negative pole zinc, remarkable corrosion-proof effect is achieved when compared with the case where said element is added independently. Remarkable complex effect is recognized only when the content of Ni and Te in zinc alloy composition is within said range. Consequently, a zinc negative pole having low hardening rate while provided with discharge performance and corrosion resistance is obtained through combination of the elements to be added into zinc alloy and experimental study.</p>